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## ABSTRACT OF THE DISCLOSURE

A method for dynamically defining traffic lanes in a traffic monitoring system is presented. A traffic system sensor detects vehicles passing within the field of view and process the data into an estimation of the position of each of the detected vehicles. The positions are defined and recorded for use in a probability density function estimation. The traffic lane positions are defined such that further detection of vehicles may be assigned to a particular traffic lane without requiring manual set-up and definition of the traffic lane boundaries. The traffic lane boundaries may change or migrate based upon modification of traffic paths due to construction, weather, lane re-assignments and the like.

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